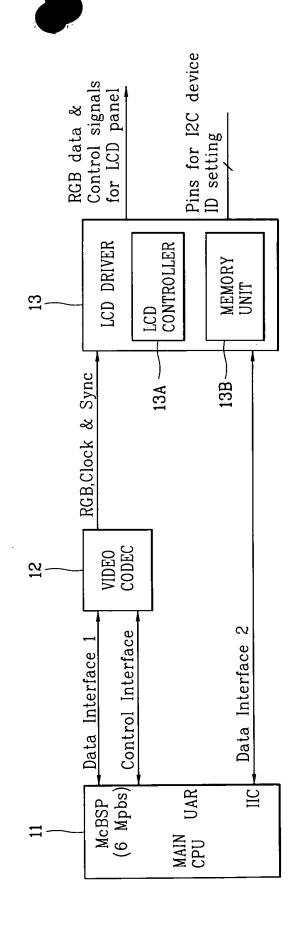
TOOETT OZTZOOT FIG 1A







## FIG. 1B

### 3 Mode Operation

### Active Mode(Data Interface 1):

- -JPEG,GIF
- -MPEG4 -MP3(128kbps).AAC
- Animation (Game)
- -Text Service

### Standby Mode(Data Interface 2):

-Animation, Still Image & Text, Text only

#### Power Down Mode

-LCD Driver IC power off, but SRAM is alive

### Display Scheme

#### Active Mode

- -Normal Operation
- -Main CPU, Video CODEC and LCD driver IC are all alive
- -LCD display frame rate of ~30 frames/sec

### Standby Mode

- -Power Saving Mode(Video CODEC is powered off)
- -Animation or Still Image & Text or Text can be displayed
- -LCD display frame rate of~5 frames/sec

#### Power Down Mode

-Nothing is displayed, Ready for displaying

## FIG. 2

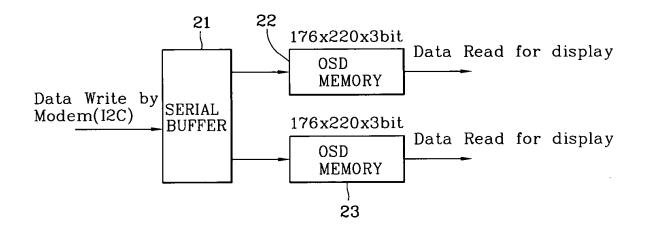
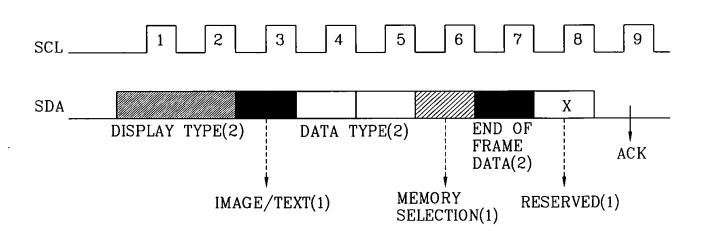


FIG. 3



DISPLAY TYPE(2bits)

00: ANIMATION

01: STILL IMAGE & TEXT

10: TEXT ONLY

11: REGISTER CONTROL

IMAGE/TEXT(1bit)

O: TEXT DATÀ

1: IMAGE DATA

DATA TYPE(2bit)

00: BURST DATA 01: AREA DATA

10: LINE DATA

11: PIXEL DATA

### OSD MEMORY SELECTION(1bit)

0: OSD MEMORY 1(FIRST)

1: OSD MEMORY 2(SECOND)

### END OF FRAME DATA(1bit)

0: NOT EOFD

1: EOFD

# FIG. 4

### IMAGE DATA REPRESENTATION(3bits)

TEXT DATA REPRESENTATION(1bit)
0: BACKGROUND DATA

1: TEXT DATA

000: BLACK

001: BLUE

010: GREEN

011: CYAN

100: RED

101: MAGENTA

110: YELLOW

111: WHITE

FIG. 5

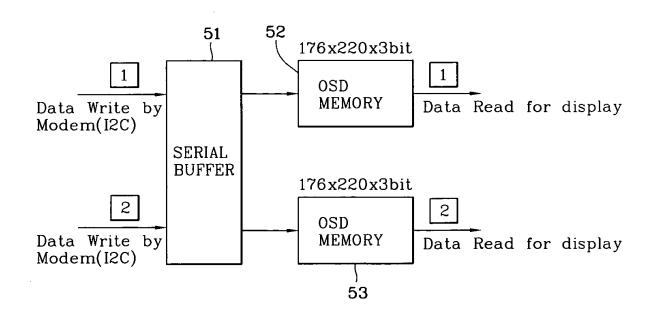


FIG. 6

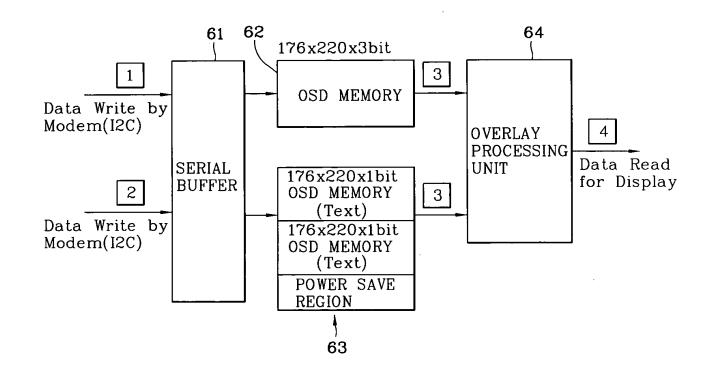
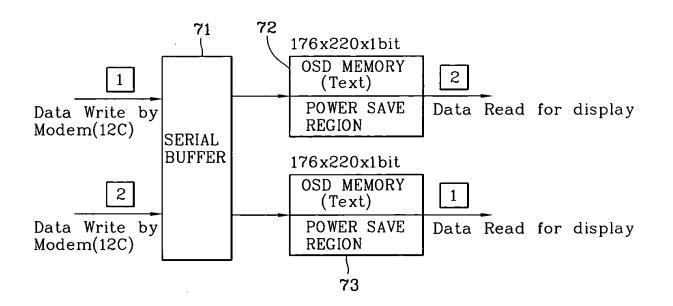
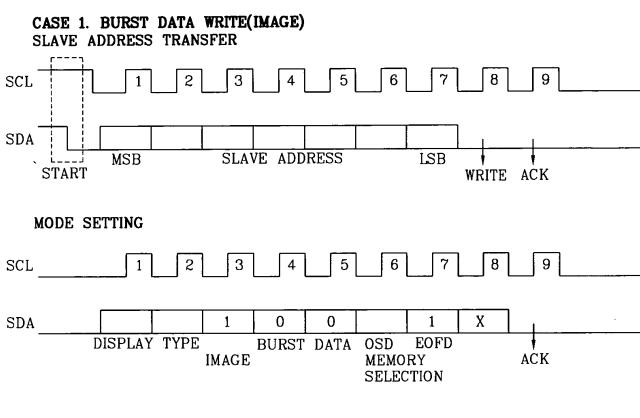


FIG. 7



## FIG. 8A



#### PIXEL DATA TRANSFER

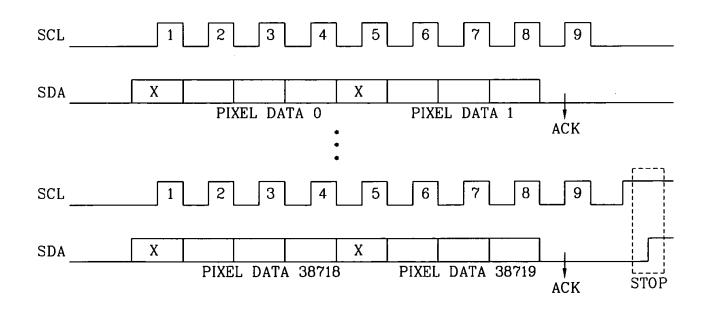


FIG. 8B

# CASE 2. AREA DATA WRITE(IMAGE) SLAVE ADDRESS TRANSFER

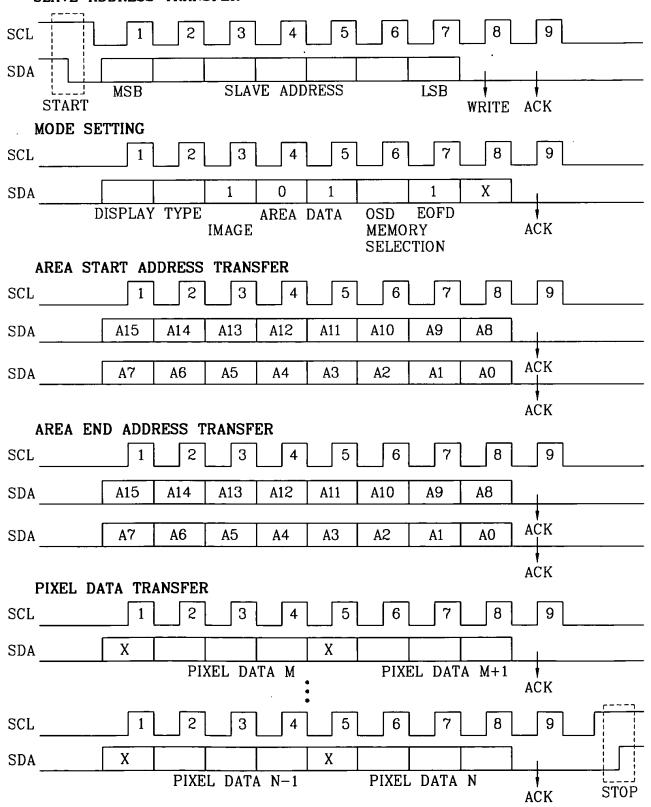
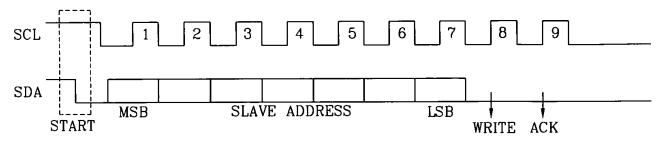
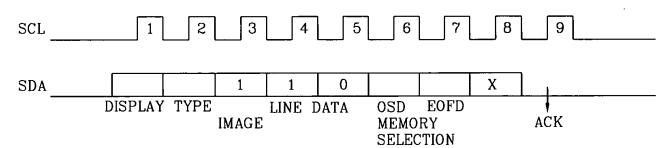


FIG. 8C

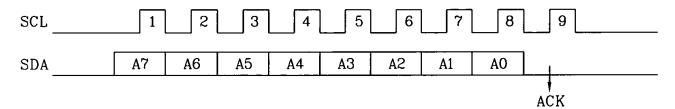
# CASE 3. LINE DATA WRITE(IMAGE) SLAVE ADDRESS TRANSFER



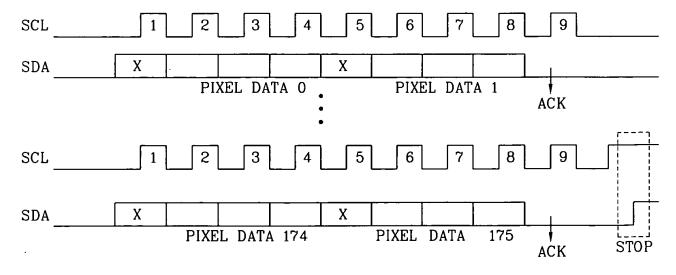
#### MODE SETTING



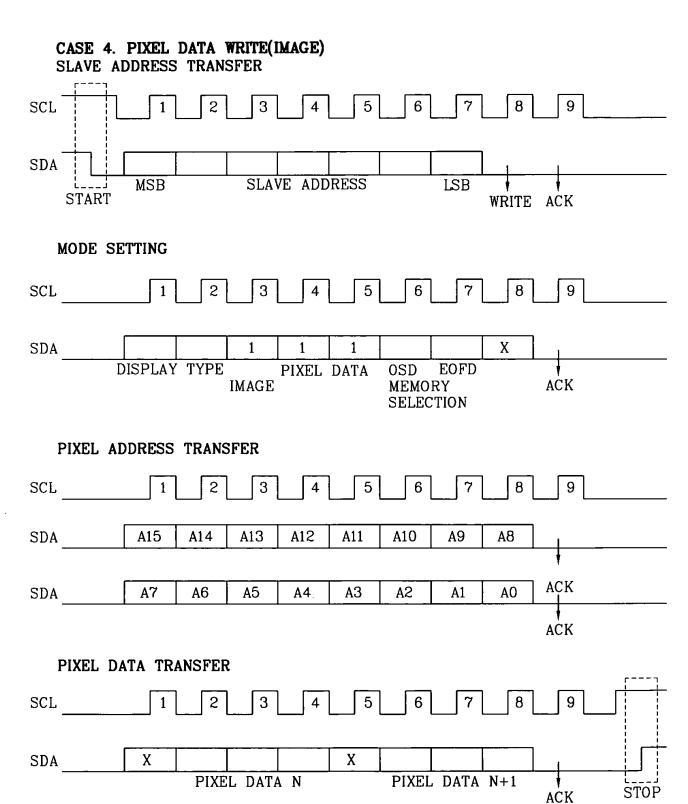
#### LINE ADDRESS TRANSFER

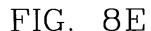


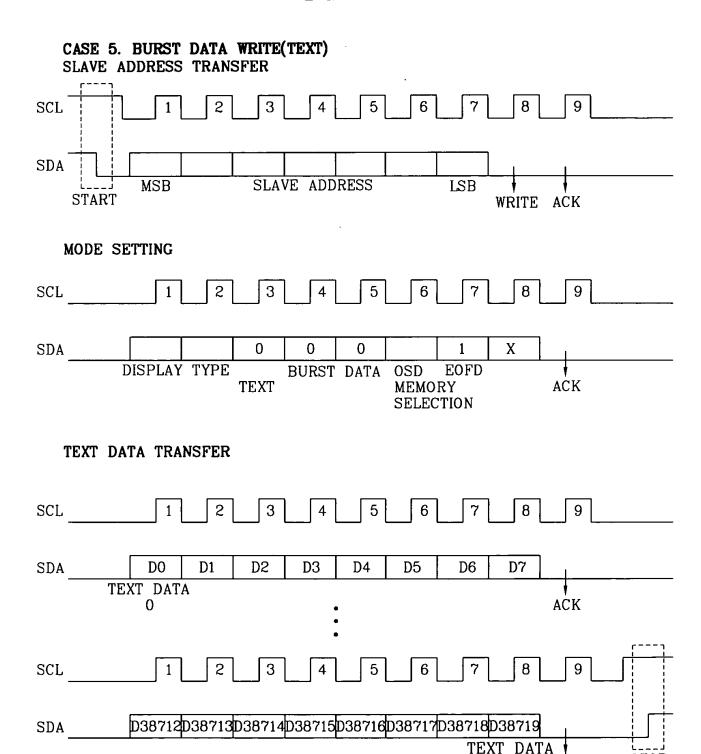
#### PIXEL DATA TRANSFER



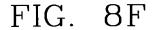
## FIG. 8D



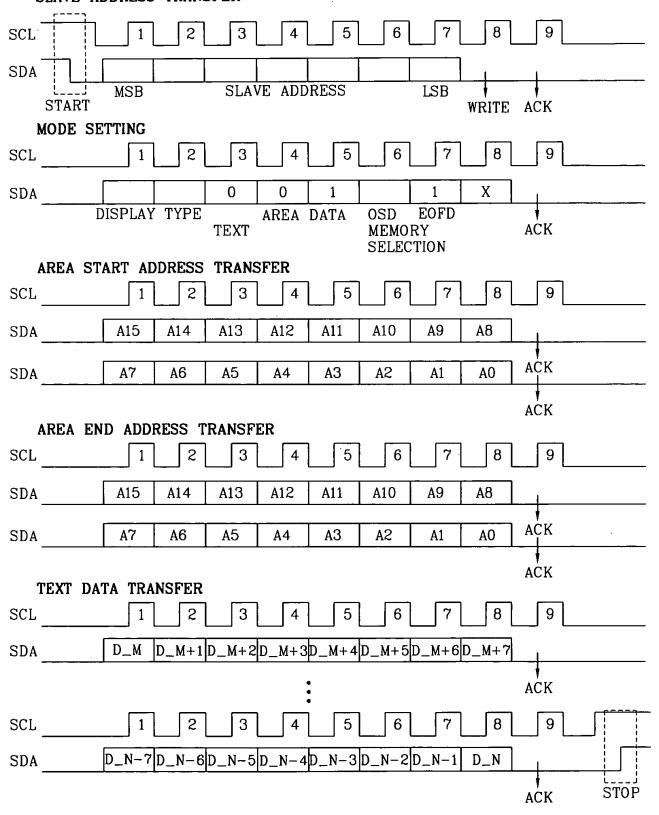




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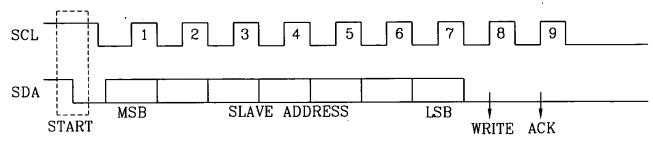
# CASE 6. AREA DATA WRITE(TEXT) SLAVE ADDRESS TRANSFER



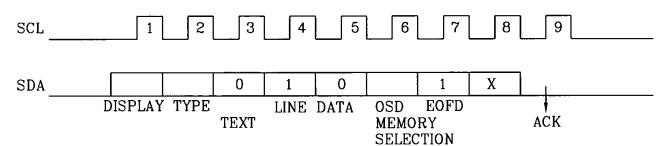


# FIG. 8G

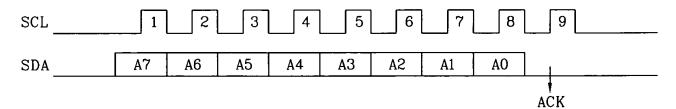




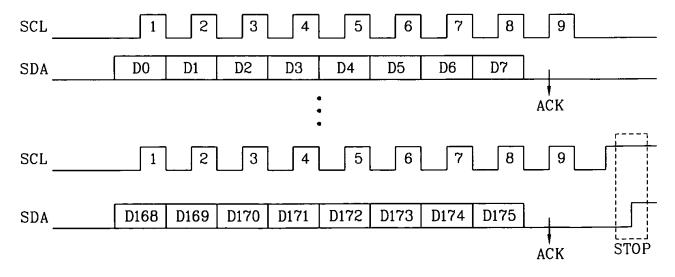
#### MODE SETTING



#### LINE ADDRESS TRANSFER



#### TEXT DATA TRANSFER

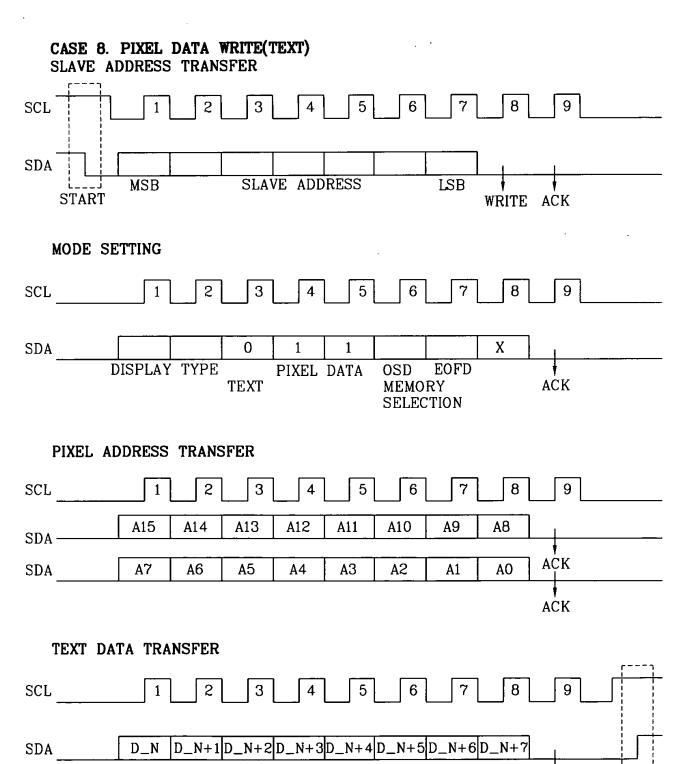




STOP

ACK

# FIG. 8H







# FIG. 9

